

Message Text

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EO 11652:ADS-UNCLASSIFIED UPON COMPLETION OF NEGOTIATIONS

TAGS: MILI, CA, US

SUBJECT: EXTENSION OF OPERATING RIGHTS - PROJECT 7663

REFS: (A) STATE 180237, 16 AUG 1974
(B) OTTAWA 3652, 7 NOV 1974

1. REF A REQUESTED THAT EMBASSY SEEK GOC APPROVAL FOR
EXTENSION OF PROJECT 7663 OPERATING RIGHTS. BY EXCHANGE
OF NOTES (REF B), GOC APPROVED THE EXTENSION OF OPERATING
RIGHTS FOR PROJECT 7663 RELATING TO IONOSPHERIC
INHOMOGENEITIES THROUGH 31 DECEMBER 1975.

2. THE AIR FORCE CAMBRIDGE RESEARCH LABORATORY (AFCRL)
PLANS TO CONTINUE PROJECT 7663 TO GAIN BETTER UNDERSTANDING
OF THE DYNAMIC PROCESSES OF THE IONOSPHERE AND ITS INTER-
ACTIONS WITH THE MAGNETOSPHERE. PROPER UNDERSTANDING OF
THESE PROCESSES AND INTERACTIONS WILL MAKE POSSIBLE THE
PREDICTION, MONITORING AND MODELLING OF A CRITICAL
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ENVIRONMENTAL REGION FOR A NUMBER OF AIR FORCE SYSTEMS.

THE IDENTIFICATION OF SUBSTORM PRECURSORS, BASIC TYPES
OF SUBSTORMS, IONOSPHERIC F-LAYER TROUG MODELLING,
DEFINITION OF LARGE SCALE IONOSPHERIC GRADIENTS, THE
MORPHOLOGY AND DYNAMICS OF THE AURORAL OVAL AND POLAR CAP
AURORA ARE THE MAJOR AREAS OF STUDIES AND EXPERIMENTS

UNDER THIS PROJECT. THE STUDIES ARE CARRIED OUT THROUGH
DATA OBTAINED FROM THE AIRBORNE IONOSPHERIC OBSERVATORY
(AIO) AND THE GOOSE BAY IONOSPHERIC OBSERVATORY (GBIO).

3. THE GBIO IS A RESEARCH IONOSONDE STATION OPERATED
UNDER CONTRACT BY THE CANADIAN MARCONI CORPORATION AND
SUBJECT TO THE PROVISIONS OF THE GOOSE AB AGREEMENT OF
30 JUNE 1973. THE STATION IS OPERATED ON A REGULAR
SCHEDELE OF 7 DAYS A WEEK BY SIX CANADIAN MARCONI
EMPLOYEES. RADIO FREQUENCIES REQUIRED BY THE GBIO HAVE
BEEN APPLIED FOR.

4. THE AIO IS A NKC-135 (SN 53131) EQUIPPED WIT A
GRANGER SOUNDER WITH DIGISONDE EXCITOR, 4-LINE SCANNING
PHOTOMETER, VISIOLE AND INFRARED SPECTROMETERS, LORAN A,
LF/HF/VHF RECEIVERS, 16 AND 35MM ALL SKY CAMERAS, AND
RELATED TIMING AND RECORDING EQUIPMENT. THE AIRCREW WILL
CONSIST OF 10 U.S. MILITARY WHILE THE SCIENTIFIC CREW
WILL CONSIST OF 3 TO 8 DOD CIVILIAN EMPLOYEES AND 1 TO
4 U.S. MILITARY. ALL PERSONNEL ON THE FLIGHTS WILL BE
U.S. CITIZENS.

5. THE PROJECT AND DATA OBTAINED ARE UNCLASSIFIED. THE
DATA IS RELEASABLE TO GOC IN ACCORDANCE WITH PREVIOUS
AGREEMENT OR TO OTHER CANADIAN AGENCIES UPON REQUEST.
THE RESEARCH SHOULD BE OF INTEREST TO ALL CANADIAN
AGENCIES CONCERNED WITH POLAR IONOSPHERIC COMMUNICATIONS
PROBLEMS.

6. REQUEST EMBASSY SEEK EXTENSION, THROUGH 31 DECEMBER
1977, OF THE GOC APPROVAL FOR OVERFLIGHTS AND OPERATION OF
THE TEST AIRCRAFT AS REQUIRED IN SUPPORT OF PROJECT 7663
AS WELL AS THE OPERATION OF THE GOOSE BAY IONOSP;ERIC
OOSERVATORY DURING THE SAME PERIOD. THE NEXT FLIGHT IN
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SUPPORT OF THIS PROJECT IS PLANNED FOR 23 JANUARY 1976.
SPECIFIC INFORMATION CONCERNING EACH FLIGHT WILL BE
FURNISHED BY THE OPERATING AGENCY IN ACCORDANCE WITH
THE USAF FOREIGN CLEARANCE GUIDE.

ROBINSON

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